Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

ICP-MS is an analytical technique used for elemental determinations and is known and used for its ability to detect metals and several non-metals in liquid samples at very low concentrations.

It offers better sensitivity than other elemental analysis techniques such as ICP Atomic Emission Spectroscopy (ICP-AES) and ICP Optical Emission Spectrometry (ICP-OES).

The ICPMS is applicable to following research areas:

- Geological - measure the trace elements / isotopes concentrations in determining origins of rocks
- Environmental – measure the trace elements in dirty/ treated water, dust in the air (trap in air filter) and soil samples
- Biological and clinical - measure the trace elements in urine or blood samples.
- Agricultural - trace metals in soils, fertilizers & feed.

It also has the capabilities to perform quantification of elemental isotopic concentration and ratios, as well as precise speciation capabilities when used in conjunction with HPLC.

For enquiries, please contact the staff-in-charge.
Name: Ms. Maria Chong
Phone: 67904851
Email: maschong@ntu.edu.sg

Usage Rate: Key Equipment Charges For CESEL.xlsx